Flameproof. Fluorescent

Zone 1 and 2 - 21 and 22 Gas (G) and Dust (D)

Applications

- Provides adequate lighting and/or visual indication of access on exit routes during an emergency evacuation in a hazardous environment
- Can be installed in hazardous areas designated as Zone 1 and 2 – 21 and 22.
- Typical applications include oil refineries, petrochemical plants, pulp and paper mills.

Features

- Power supply from 110 to 240 Vac 50/60 Hz versions.
- 3-hour duration.
- Threaded access cover with O-ring seal.
- Operates in any position.
- 8 W Fluorescent (1 or 2 lamps supplied).
- Charge indicator by 1 red LED (life time over 10 years).
- Termination 3 or 4 x 2.5 mm² terminals.
- Supplied with two fixing lugs.

Standard Materials

- End caps and cover: aluminum
- O-ring seal: Nitrile
- · Lens: tempered borosilicate glass
- Fixing brackets: zinc plated steel or 316 stainless steel
- · Accessories: white painted galvanized steel
- Guard: zinc plated steel

Certifications and Compliances

♦ATEX/IECEx Certification

- Certification Type: FLd
- Gas: Zone 1 2
 - Conforming to ATEX 94/9/CE: 🗟 II 2 G
 - Type of Protection: Ex d IIC
 - Temperature class: T6
 - Dust: Zone 21 22
 - Conforming to ATEX 94/9/CE: ᠍ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T80 °C
 - Ambient Temperature: -40 °C to +55 °C
- CE Declaration of Conformity: 50203
- ATEX Certificate: LCIE 97 ATEX 6012
- IECEx Certificate: IECEx LCI 04.0018
- Index of Protection according EN/IEC 60529: IP66/68
- Impact Resistance (shock): IKO8
- Internal Volume: > 2 dm³- 2 liters



2 x 8 W Fluorescent Sustained

♦ EURASEC Certification

— EURASEC N° TC RU C-FR.гб05.В.00912

♦ Others Certification

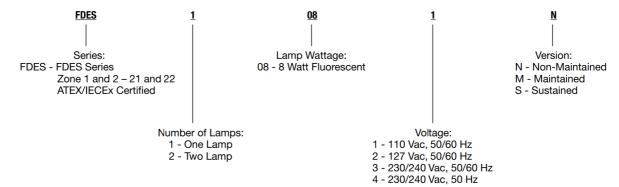
INMETRO Certificate: BVC11.0492 [⊕]

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Order using catalog numbering guide below or select catalog number from tables on following pages.

Catalog Numbering Guide - FDES Series Self-Contained Emergency Units



3 Hour Duration — Two M20 Threaded Cable Entries With One M20 Blanking Plug

Type	Lumen Output	Voltage	Frequency	Weight kg	Volume dm³	Catalog Number
1,750	Cutput	230/240 Vac	50/60 Hz	9		FDES1083N
1 x 8 W Fluorescent Non-Maintained	230 lm	127 Vac	50/60 Hz	7,8	36	FDES1082N
		110 Vac	50/60 Hz		_	FDES1081N
1 x 8 W Fluorescent Maintained	180 lm	230/240 Vac	50/60 Hz	7.8		FDES1084M
		127 Vac	50/60 Hz		36	FDES1082N
		110 Vac	50/60 Hz			FDES1081N
2 x 8 W Fluorescent Sustained	230 lm	230/240 Vac	50 Hz	7.8	36	FDES2084S

Shaded catalog numbers are normally stocked items. All other items are made to order.



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Accessories and Replacement Parts

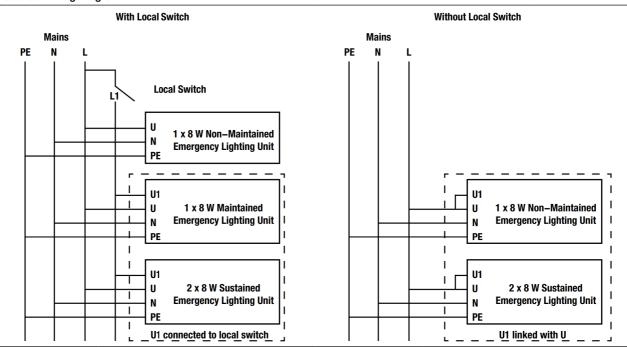
	Description	Catalog Number
4	Reflector	
	White painted galvanized steel	FDER1G
	Protective Guard	
	Zinc plated steel	FDPG1Z
	Fixing Brackets: Set of two for ease of surface installation	
	Zinc plated steel	FDFBZ
	316 stainless steel	FDFBS
	Surface Mounting Brackets: Set of two	
	Zinc plated steel	FDSBZ
	316 stainless steel	FDSBS
	Half Clamps: Set of two	
	Zinc plated steel versions:	
	Diameter for 1-1/4 to 1-1/2" pole: 42 mm to 49 mm	FDHC49Z
	Diameter for 2" pole: 60 mm	FDHC60Z
	316 stainless steel versions:	
	Diameter for 1-1/4 to 1-1/2" pole: 42 mm to 49 mm	FDHC49S
	Diameter for 2" pole: 60 mm	FDHC60S
#	Spare Lamps	
	8 W fluorescent G5	LF008G5
	Fall Prevention Kit	
	1.20 m stainless steel chain	FDSCS

Shaded catalog numbers are normally stocked items. All other items are made to order.

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Emergency Function Diagram

		1 x 8 W M	aintained	2 x 8 W Sustained		
Mains	1 x 8W Non–Maintained	Local Switch OFF or No Link	Local Switch ON or Link Present	Local Switch OFF or No Link	Local Switch ON or Link Present	
Switched ON						
Switched OFF						

Dimensions in Millimeters (Inches)

